

1 **WHAT IS CLAIMED IS:**

2 1. An adjustable transmission device for a vertical rolling door
3 comprising
4 a bracket having two side holders, each side holder having
5 an inner surface,
6 an outer surface, and
7 a slot defined through the side holder,
8 a driving device mounted inside the bracket and having
9 a shaft mounted between the side holders and having two ends,
10 two rollers mounted respectively on the ends of the shaft,
11 a connector mounted around and connected to the rollers so the
12 rollers rotate together with the shaft inside the connector, and
13 at least one torsional springs, each one of the at least one
14 torsional spring mounted around the shaft having a rotating end attached to one
15 of the rollers and a stationary end attached to the shaft, and
16 two adjustable spring devices attached respectively to the side holders
17 of the bracket, each adjustable spring device having
18 a base attached to the outer surface of a corresponding one of
19 the side holders, mounted in the slot in the corresponding side holder and
20 having a tube mounted through the slot in the corresponding side holder,
21 extending into one end of the shaft and having a distal end with a stationary
22 inclined surface and a proximal end, and
23 a mounting plate attached to the proximal end of the tube,
24 abutting the outer surface of the corresponding side holder and having

1 a center;
 2 an inside surface attached to the proximal end of
 3 the tube around the center;
 4 an outside surface;
 5 multiple through holes equally spaced around the
 6 center of the mounting plate; and
 7 an elongated slot at the center;
 8 a shaft lock connected to the distal end of the tube of the base
 9 inside the shaft, being tubular and having
 10 an open end having a sliding inclined surface that forms a
 11 long side, the sliding inclined surface abutting against the stationary inclined
 12 surface;
 13 a closed end having a threaded lock hole aligned with the
 14 elongated slot when the sliding inclined surface abuts the stationary inclined
 15 surface;
 16 an outside surface, and
 17 multiple longitudinal ribs formed on the long side of the
 18 outside surface;
 19 an inner base mounted around the tube of the base and the shaft
 20 lock, abutting the inner surface of the corresponding side holder and having
 21 a center,
 22 a central hole defined at the center of the inner base, and
 23 multiple threaded base holes equally spaced around the
 24 central hole,

1 a locking bolt passing through the elongated slot in the
2 mounting plate and the central hole in the inner base and screws into the
3 threaded lock hole in the shaft lock, and
4 multiple base fasteners, each base fastener passing through one
5 of the threaded base holes and screwed into a corresponding one of the
6 threaded base holes.

7 2. The adjustable transmission device as claimed in claim 1, wherein
8 each adjustable spring device further comprises inner base fasteners, and
9 the inner base further comprises multiple threaded inner base holes
10 equally spaced around the threaded base holes, wherein each inner base
11 fastener is inserted into one of the threaded inner base holes.